

Title (en)

Fuel cell system, operating method thereof, program and recording medium

Title (de)

Brennstoffzellensystem, Verfahren zu dessen Betreiben, Programm und Aufzeichnungsmedium

Title (fr)

Système de pile à combustible, procédé de fonctionnement correspondant, programme et support d'enregistrement

Publication

**EP 1544933 A3 20071219 (EN)**

Application

**EP 04029872 A 20041216**

Priority

JP 2003420039 A 20031217

Abstract (en)

[origin: EP1544933A2] A fuel cell system comprising the stack having a gas distribution means of guiding reaction gas into electrodes of respective single cells, the gas supplying sections for supplying the reaction gas to the stack, the gas humidifying section for humidifying the reaction gas which are disposed between the gas supplying sections and the electrode inlet of the gas distribution means, and the controlling section for controlling the water vapor content of the reaction gas supplied at least to one of the electrodes so as to exceed the saturated water vapor content at the temperature of at least one of the electrode inlets of the gas distribution means.

IPC 8 full level

**H01M 8/04** (2006.01); **H01M 8/02** (2006.01); **H01M 8/06** (2006.01); **H01M 8/24** (2006.01); **H01M 8/10** (2006.01)

CPC (source: EP US)

**H01M 8/0263** (2013.01 - EP US); **H01M 8/0267** (2013.01 - EP); **H01M 8/04007** (2013.01 - EP US); **H01M 8/04022** (2013.01 - EP US); **H01M 8/04074** (2013.01 - EP US); **H01M 8/04126** (2013.01 - EP US); **H01M 8/04291** (2013.01 - EP US); **H01M 8/04365** (2013.01 - EP US); **H01M 8/04373** (2013.01 - EP US); **H01M 8/04731** (2013.01 - EP US); **H01M 8/04738** (2013.01 - EP US); **H01M 8/04835** (2013.01 - EP US); **H01M 8/0612** (2013.01 - EP US); **H01M 8/241** (2013.01 - US); **H01M 8/2457** (2016.02 - EP US); **H01M 8/2483** (2016.02 - EP US); **Y02E 60/50** (2013.01 - EP)

Citation (search report)

- [X] US 2003064266 A1 20030403 - OGAMI YASUJI [JP], et al
- [A] STASCHEWSKI D: "Internal humidifying of pem fuel cells", INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, ELSEVIER SCIENCE PUBLISHERS B.V., BARKING, GB, vol. 21, no. 5, May 1996 (1996-05-01), pages 381 - 385, XP004041026, ISSN: 0360-3199

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

**EP 1544933 A2 20050622**; **EP 1544933 A3 20071219**; CN 100423335 C 20081001; CN 1630123 A 20050622; US 2005136303 A1 20050623

DOCDB simple family (application)

**EP 04029872 A 20041216**; CN 200410081913 A 20041216; US 1363704 A 20041217